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L7	6	3 and filter$5 and interfac$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/11 07:04

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1   Gummi: a bendable computer

Carsten Schwesig, Ivan Poupyrev, Eijiro Mori
April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press
Full text available: 📄 pdf(4.40 MB)   Additional Information: full citation, abstract, references, index terms

Gummi is an interaction technique and device concept based on physical deformation of a handheld device. The device consists of several layers of flexible electronic components, including sensors measuring deformation of the device. Users interact with this device by a combination of bending and 2D position control. Gummi explores physical interaction techniques and screen interfaces for such a device. Its graphical user interface facilitates a wide range of interaction tasks, focused on browsin ...

Keywords: GUI, embodied interaction, flexible electronics, handheld devices, interaction design, mobile computing, smartcards

2   Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(20.64 MB)   Additional Information: full citation

3   Making computers disappear: appliance data services

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: 📄 pdf(691.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric

devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

4 Architecture: TouchLight: an imaging touch screen and display for gesture-based interaction

Andrew D. Wilson

October 2004 **Proceedings of the 6th international conference on Multimodal interfaces**

Publisher: ACM Press

Full text available: pdf(2.33 MB)   Additional Information: full citation, abstract, references, index terms

A novel touch screen technology is presented. TouchLight uses simple image processing techniques to combine the output of two video cameras placed behind a semi-transparent plane in front of the user. The resulting image shows objects that are on the plane. This technique is well suited for application with a commercially available projection screen material (DNP HoloScreen) which permits projection onto a transparent sheet of acrylic plastic in normal indoor lighting conditions. The resultin ...

Keywords: computer human interaction, computer vision, displays, gesture recognition, videoconferencing

5 Support for workflows in a ministerial environment

Wolfgang Prinz, Sabine Kolvenbach

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: pdf(1.44 MB)   Additional Information: full citation, references, citings, index terms

Keywords: digital signatures, electronic circulation folder, participatory design, shared workspaces, workflow

6 User Interfaces for Applications on a Wrist Watch
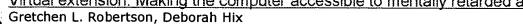
M. T. Raghunath, Chandra Narayanaswami

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 1

Publisher: Springer-Verlag

Full text available: pdf(356.91 KB)   Additional Information: full citation, abstract, citings, index terms

Advances in technology have made it possible to package a reasonably powerful processor and memory subsystem coupled with an ultra high-resolution display and wireless communication into a wrist watch. This introduces a set of challenges in the nature of input devices, navigation, applications, and other areas. This paper describes a wearable computing platform in a wrist watch form-factor we have developed. We built two versions: one with a low resolution liquid crystal display; and another wit ...

7 Virtual extension: Making the computer accessible to mentally retarded adults

Gretchen L. Robertson, Deborah Hix

April 2002 **Communications of the ACM**, Volume 45 Issue 4

Publisher: ACM Press

Full text available: pdf(633.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

Little research has been conducted on how to teach computer skills to developmentally disabled adults. A head counselor at a home for mentally retarded adults, who served as

the inspiration for this article, was an enthusiastic personal computer user who tried to share computer instruction with home residents. Efforts at using commercial applications designed for young children were unsuccessful. Residents briefly watched the counselor use the applications, then lost interest. Staff members had ...

8 Dual touch: a two-handed interface for pen-based PDAs

Nobuyuki Matsushita, Yuji Ayatsuka, Jun Rekimoto

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(83.25 KB)   Additional Information: full citation, references, citings, index terms

Keywords: interaction technology, mobile computers, pen interfaces, two-handed interfaces

9 Touching and hearing GUI's: design issues for the PC-Access system

Christophe Ramstein, Odile Martial, Aude Dufresne, Michel Carignan, Patrick Chassé, Philippe Mabilleau

April 1996 **Proceedings of the second annual ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: pdf(1.30 MB)   Additional Information: full citation, references, citings, index terms

10 Touch-sensing input devices

Ken Hinckley, Mike Sinclair

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Publisher: ACM Press

Full text available: pdf(1.23 MB)   Additional Information: full citation, abstract, references, citings, index terms

We can touch things, and our senses tell us when our hands are touching something. But most computer input devices cannot detect when the user touches or releases the device or some portion of the device. Thus, adding touch sensors to input devices offers many possibilities for novel interaction techniques. We demonstrate the TouchTrackball and the Scrolling TouchMouse, which use unobtrusive capacitance sensors to detect contact from the users hand without requiring pressure or mechan ...

Keywords: haptic input, input devices, interaction techniques, sensor technologies, tactile input, touch-sensing devices

11 Interacting with walls and tables: Improving drag-and-drop on wall-size displays

Maxime Collomb, Mountaz Hascoët, Patrick Baudisch, Brian Lee

May 2005 **Proceedings of the 2005 conference on Graphics interface GI '05**

Publisher: Canadian Human-Computer Communications Society

Full text available: pdf(374.88 KB)   Additional Information: full citation, abstract, references

On wall-size displays with pen or touch input, users can have difficulties reaching display contents located too high, too low, or too far away. Drag-and-drop interactions can be further complicated by bezels separating individual display units. Researchers have proposed a variety of interaction techniques to address this issue, such as extending the

user's reach (e.g., *push-and-throw*) and bringing potential targets to the user (*drag-and-pop*). In this paper, we introduce a new tech ...

Keywords: drag-and-drop, drag-and-pop, interaction technique, pen input, push-and-throw, touch-screen, wall-size display

12 Interactive Posters: Layered touch panel: the input device with two touch panel layers
Yujin Tsukada, Takeshi Hoshino
April 2002 **CHI '02 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings

We developed Layered Touch Panel that expands the interaction techniques of touch panel. Layer Touch Panel has two touch panel layers, so that it is able to distinguish two touch states such as "finger on screen" and "finger above screen". With the structure, Rollover effect and Pick & Drop that are not available in normal touch panel are available in Layered Touch Panel.As the result of a usability test, 88% of test users answered that Layered Touch Panel is more usable than normal touch panel. ...

Keywords: input device, pick & drop, rollover effect, touch panel

13 Pointing: Interacting with large displays from a distance with vision-tracked multi-finger gestural input
Shahzad Malik, Abhishek Ranjan, Ravin Balakrishnan
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**
Publisher: ACM Press
Full text available: pdf(1.68 MB)   Additional Information: full citation, abstract, references, index terms

We explore the idea of using vision-based hand tracking over a constrained tabletop surface area to perform multi-finger and whole-hand gestural interactions with large displays from a distance. We develop bimanual techniques to support a variety of asymmetric and symmetric interactions, including fast targeting and navigation to all parts of a large display from the comfort of a desk and chair, as well as techniques that exploit the ability of the vision-based hand tracking system to provide mu ...

Keywords: asymmetric, bimanual, from afar, gesture, interaction, large wall, multi-point, symmetric, touch surface, two hands, visual touchpad

14 A prototype Spatial Data Management System
Christopher F. Herot, Richard Carling, Mark Friedell, David Kramlich
July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques SIGGRAPH '80**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(3.42 MB)   Additional Information: full citation, abstract, references, citings, index terms

Spatial Data Management is a technique for organizing and retrieving information by positioning it in a spatial framework. Data is accessed in a Spatial Data Management System (SDMS) via pictorial representations which are arranged in space and viewed through a computer graphics system. These pictures can be created by an interactive graphical editor, allowing an SDMS to serve as a personal repository of diagrams, text, and photographs. Pictograms can also be generated from data in a symbol ...

Keywords: Computer graphics, Database query languages, Graphics languages, Man-machine interaction

15 Late-breaking results: MIT is the limit: TouchTags: using touch to retrieve information stored in a physical object
Benjamin Vigoda, Neil Gershenfeld
May 1999 **CHI '99 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(222.36 KB)   Additional Information: full citation, abstract, references, citings

Information can be stored in inexpensive electronic "tag" microchips which can be embedded in physical objects. We have invented a new tag reader technology which allows information to be transferred into or out of these tag microchips through the human body via touch. Our technology has enabled us to create a novel user interface which can recognize when physical icons are touched, and a wearable system that can inventory packages when they are touched.

Keywords: physical icons, physical interface, tags, touch, wearables

16 Human-computer interface development: concepts and systems for its management
H. Rex Hartson, Deborah Hix
March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(7.97 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

17 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

18 Improving selection performance on pen-based systems: a study of pen-based interaction for selection tasks
Xiangshi Ren, Shinju Moriya
September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3
Publisher: ACM Press
Full text available: Additional Information: full citation, references, citings, index terms

pdf(320.70 KB)   review

Keywords: classifications of selection strategies, mobile computing, pen-based input interfaces, pen-based systems, small targets, state-transition models, target selection strategies

19 Noncommand user interfaces

Jakob Nielsen
April 1993 **Communications of the ACM**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: pdf(6.81 MB)   Additional Information: full citation, references, citings, index terms

20 Touch-Space: Mixed Reality Game Space Based on Ubiquitous, Tangible, and Social Computing

Adrian David Cheok, Xubo Yang, Zhou Zhi Ying, Mark Billinghurst, Hirokazu Kato
January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6
Publisher: Springer-Verlag
Full text available: pdf(383.71 KB)   Additional Information: full citation, abstract, citings, index terms

This paper presents a novel computer entertainment system which recaptures human touch and physical interaction with the real-world environment as essential elements of the game play, whilst also maintaining the exciting fantasy features of traditional computer entertainment. Our system called 'Touch-Space' is an embodied (ubiquitous, tangible, and social) computing based Mixed Reality (MR) game space which regains the physical and social aspects of traditional game play. In this nov ...

Keywords: Embodied computing, Game space, Mixed reality, Social computing, Tangible interaction, Ubiquitous computing

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1 PicoDBMS: Scaling down database techniques for the smartcard
Philippe Pucheral, Luc Bouganim, Patrick Valduriez, Christophe Bobineau
September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(259.03 KB)   Additional Information: full citation, abstract, citings, index terms

Smartcards are the most secure portable computing device today. They have been used successfully in applications involving money, and proprietary and personal data (such as banking, healthcare, insurance, etc.). As smartcards get more powerful (with 32-bit CPU and more than 1 MB of stable memory in the next versions) and become multi-application, the need for database management arises. However, smartcards have severe hardware limitations (very slow write, very little RAM, constrained stable mem ...

Keywords: Atomicity, Durability, Execution model, PicoDBMS, Query optimization, Smartcard applications, Storage model

2 Using smartcards to secure a personalized gambling device
William A. Aiello, Aviel D. Rubin, Martin J. Strauss
November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**
Publisher: ACM Press
Full text available: pdf(762.94 KB)   Additional Information: full citation, abstract, references, index terms

We introduce a technique for using an untrusted device, such as a hand-held personal digital assistant or a laptop to perform real financial transactions without a network. We utilize the tamper-resistant nature of smartcards to store value on them and perform probabilistic computations based on user input. We discuss an application of this to gambling. The technique has the properties that the user is guaranteed to make money when he wins and the house is guaranteed to make money w ...

3 A smartcard for authentication in WLANs
Marc Loutrel, Pascal Urien, Guy Pujolle
October 2003 **Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research**
Publisher: ACM Press
Full text available: pdf(333.05 KB)   Additional Information: full citation, abstract, references, index terms

Wireless LANs based on the IEEE 802.11b standard have spread very quickly over the past few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One of the most important issues is the authentication of a terminal to an Access Point. We propose an interface to integrate the Extensible Authentication Protocol into smartcards and will show that smartcards could constitute the de-facto device for authentication in Wireless LAN as they are for GSM and will ...

Keywords: authentication, smartcard, wireless LANs

4   Computer applications: A Java OpenCard framework based medical smartcard system
David Gildea, Tom Dowling
June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java PPPJ '03**
Publisher: Computer Science Press, Inc.
Full text available: pdf(193.50 KB)   Additional Information: full citation, abstract, references, index terms

The architecture and use of the java OpenCard Framework, (OCF), to develop SmartCard systems is discussed. The protocols involved and the different layers that comprise the systems are also discussed. The design and implementation of an OCF based personal Medical SmartCard system is presented.

Keywords: OpenCard Framework, smart cards

5   BITS: a smartcard protected operating system
Paul C. Clark, Lance J. Hoffman
November 1994 **Communications of the ACM**, Volume 37 Issue 11
Publisher: ACM Press
Full text available: pdf(3.80 MB)   Additional Information: full citation, references, citings, index terms

6   High Security Smartcards
M. Renaudin, F. Bouesse, Ph. Proust, J. P. Tual, L. Sourgen, F. Germain
February 2004 **Proceedings of the conference on Design, automation and test in Europe - Volume 1**
Publisher: IEEE Computer Society
Full text available: pdf(86.43 KB)   Additional Information: full citation, abstract, citings, index terms

New consumer appliances such as PDA, Set Top Box, GSM/UMTS terminals enable an easy access to the internet and strongly contribute to the development of e-commerce and m-commerce services. Tens of billion payments are made using cards today, and this is expected to grow in a near future. Smartcard platforms will enable operators and service providers to design and deploy new e- and m-commerce services. This development can onlybe achieved if a high level of security is guaranteed for the transac ...

7   Formalizing the safety of Java, the Java virtual machine, and Java card
Pieter H. Hartel, Luc Moreau
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(442.86 KB)   Additional Information: full citation, abstract, references, citings, index terms

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is

that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

8 Oral II: Secure smartcardbased fingerprint authentication

T. Charles Clancy, Negar Kiyavash, Dennis J. Lin
November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**
Publisher: ACM Press
Full text available: pdf(452.50 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, the fundamental insecurities hampering a scalable, wide-spread deployment of biometric authentication are examined, and a cryptosystem capable of using fingerprint data as its key is presented. For our application, we focus on situations where a private key stored on a smartcard is used for authentication in a networked environment, and we assume an attacker can launch o -line attacks against a stolen card.Juels and Sudan's *fuzzy vault* is used as a starting point for buildi ...

Keywords: authentication, biometrics, fingerprint, smartcard

9 Emerging applications: A new CRT-RSA algorithm secure against bellcore attacks

Johannes Blömer, Martin Otto, Jean-Pierre Seifert
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**
Publisher: ACM Press
Full text available: pdf(306.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe a new algorithm to prevent fault attacks on RSA signature algorithms using the Chinese Remainder Theorem (CRT-RSA). This variant of the RSA signature algorithm is widely used on smartcards. Smartcards on the other hand are particularly susceptible to fault attacks like the one described in [7]. Recent results have shown that fault attacks are practical and easy to accomplish ([21], [17]).Therefore, they establish a practical need for fault attack protected CRT-RSA schem ...

Keywords: Bellcore attack, Chinese remainder theorem, RSA, cryptanalysis, faults attacks, smartcards

10 Nark: receiver-based multicast non-repudiation and key management

Bob Briscoe, Ian Fairman
November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**
Publisher: ACM Press
Full text available: pdf(168.86 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet, audit trail, key management, multicast, non-repudiation, smartcard, watermark

11 Computer security (SEC): Protected transmission of biometric user authentication

data for oncard-matching
Ulrich Waldmann, Dirk Scheuermann, Claudia Eckert
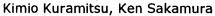March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(574.45 KB)   Additional Information: full citation, abstract, references

Since fingerprint data are no secrets but of public nature, the verification data transmitted
to a smartcard for oncard-matching need protection by appropriate means in order to
assure data origin in the biometric sensor and to prevent bypassing the sensor. For this
purpose, the verification data to be transferred to the user smartcard is protected with a
cryptographic checksum that is calculated within a separate security module controlled by
a tamper resistant card terminal with integrated bio ...

Keywords: authentication, biometrics, cryptographic protocols, data integrity, electronic
signature, oncard-matching, smartcards, system security, tamper proof environment

12 Towards ubiquitous database in mobile commerce
Kimio Kuramitsu, Ken Sakamura
May 2001 **Proceedings of the 2nd ACM international workshop on Data engineering
for wireless and mobile access**
Publisher: ACM Press
Full text available: pdf(106.49 KB)   Additional Information: full citation, abstract, references, index terms

Ubiquitous database places data everywhere. We focus on contactless smartcards
combined with a small processor and memory for data storage. Very small DBMS
implemented on them can interact through queries on a wireless communication.
Ubiquitous database attaches such DBMSs to real world "objects" physically, and then
allows different organizations to share information retrieved directly from physical goods,
materials, or persons. We combined the theory with practice in the ticket ...

Keywords: data model and querying for ubiquitous data, mobile commerce, smartcard
database, ubiquitous computing

13 The Design and Test of a Smartcard Chip Using a CHAIN Self-Timed Network-on-
Chip
W. J. Bainbridge, L. A. Plana, S. B. Furber
February 2004 **Proceedings of the conference on Design, automation and test in
Europe - Volume 3**
Publisher: IEEE Computer Society
Additional Information: full citation, abstract, index terms

The CHAIN self-timed Network-on-Chip (NoC) architecture provides a flexible, clock-
independent solution to the problems of system-on-chip (SoC) interconnect. In this paper
we look at the use of CHAIN in a low-performance, smartcard chip to connect two self-
timed processors and a range of memories and peripherals. Key design-time advantages
provided by the use of CHAIN in this design included the ability to operate a very-narrow,
high-frequencynetwork fabric using serial communication without the ...

14 Anonymous E-prescriptions
Giuseppe Ateniese, Breno de Medeiros
November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic
Society**
Publisher: ACM Press
Full text available: pdf(304.10 KB)   Additional Information: full citation, abstract, references

This paper studies issues related to privacy protection of medical data, arguing that the topic is suitable for applied cryptographic research.We present the problem of medicine prescription privacy and describe a practical system that employs standard cryptographic techniques to achieve several improvements over current practices. We also introduce a very simple tool: Online group signatures which can be built via simple primitives implemented in commonly employed cryptographic libraries.

Keywords: medical information privacy, privacy-preserving cryptographic techniques, public-key cryptography

15 Demonstrations: Multi-application smartcard user interface

John Pleunis, Michal Stala

November 2004 **Proceedings of the 2nd European Union symposium on Ambient intelligence EUSAI '04**

Publisher: ACM Press

Full text available: pdf(129.51 KB)   Additional Information: full citation, abstract, references

This paper describes a demonstrator that uses an abstract user interface for enabling users to interact with applications on a smart card, using advanced consumer electronic devices.

Keywords: abstract UI, consumer electronics, multi-application smartcard, security

16 Authentication and authorization: Silicon physical random functions

Blaise Gassend, Dwaine Clarke, Marten van Dijk, Srinivas Devadas

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(433.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce the notion of a Physical Random Function (PUF). We argue that a complex integrated circuit can be viewed as a silicon PUF and describe a technique to identify and authenticate individual integrated circuits (ICs).We describe several possible circuit realizations of different PUFs. These circuits have been implemented in commodity Field Programmable Gate Arrays (FPGAs). We present experiments which indicate that reliable authentication of individual FPGAs can be performed even in the ...

Keywords: identification, physical random function, physical security, smartcard, tamper resistance, unclonability

17 Formal methods II: A model-based approach to integrating security policies for embedded devices

Michael McDougall, Rajeev Alur, Carl A. Gunter

September 2004 **Proceedings of the 4th ACM international conference on Embedded software EMSOFT '04**

Publisher: ACM Press

Full text available: pdf(180.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

Embedded devices like smartcards can now run multiple interacting applications. A particular challenge in this domain is to dynamically integrate diverse security policies. In

this paper we show how a framework based on a concise formal model lets us securely customize a payment card equipped with a programmable chip. We present *policy automata*, a formal model of computations that grant or deny access to a resource. This model combines defeasible logic with state machines, representing co ...

Keywords: Java cards, model based design, policy integration, smartcards

18 Funkspiel schemes: an alternative to conventional tamper resistance

Johan Håstad, Jakob Jonsson, Ari Juels, Moti Yung
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**
Publisher: ACM Press
Full text available: pdf(528.32 KB)   Additional Information: full citation, references, citings, index terms

19 Reflection as a mechanism for software integrity verification

Diomidis Spinellis
February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1
Publisher: ACM Press

Full text available: pdf(85.99 KB)   Additional Information: full citation, abstract, references, index terms, review

The integrity verification of a device's controlling software is an important aspect of many emerging information appliances. We propose the use of reflection, whereby the software is able to examine its own operation, in conjunction with cryptographic hashes as a basis for developing a suitable software verification protocol. For more demanding applications meta-reflective techniques can be used to thwart attacks based on device emulation strategies. We demonstrate how our approach can be ...

Keywords: cryptographic hash function, embedded device, message digest

20 Tamper-resistant whole program partitioning

Tao Zhang, Santosh Pande, Antonio Valverde
June 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems LCTES '03**, Volume 38 Issue 7
Publisher: ACM Press

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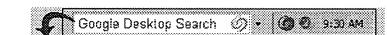Cached - Similar pages

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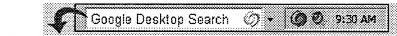www.interfacebus.com/Design_Connector_SmartCard.html - 12k - Cached - Similar pages

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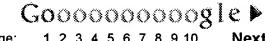
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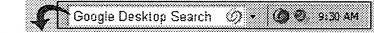kb.iu.edu/data/akko.html - 21k - Jan 10, 2006 - Cached - Similar pages

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